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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,794	11/07/2003	Toru Hirai	51270-305144	4793
7590 05/18/2005			EXAMINER	
Roger R. Wise PILLSBURY WINTHROP LLP Suite 2800 725 South Figueroa Street Los Angeles, CA 90017-5406			BRINEY III, WALTER F	
			ART UNIT	PAPER NUMBER
			2644	
			DATE MAILED: 05/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/705,794	HIRAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Walter F. Briney III	2644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>07 November 2003</u> .						
2a) This action is FINAL. 2b) This	This action is FINAL. 2b) This action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-52</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.	☐ Claim(s) is/are rejected.					
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8)⊠ Claim(s) <u>1-52</u> are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date   Notice of Informal Patent Application (PTO-152)   Other:						

## **DETAILED ACTION**

## Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention, of which the applicant is directed to select one of:

- A multi-channel echo canceller system/method where the input multichannel audio signals are reproduced by said loudspeakers without lowering the correlation of the signals; depicted in figures 1, 12, 17 and 21; recited in claim 49
- A multi-channel echo canceller system/method where the input multichannel audio signals are reproduced by said loudspeakers with lowering the correlation of the signals; depicted in figures 9, 10, 11, 13-16, 18-20, 22, and 23; recited in claims 41-48, 50 and 51

Upon selection of one of the above species, the applicant is further directed to select one of the following subspecies:

- A. A multi-channel echo canceller system/method where the input audio signals are filtered separately and the microphone signals are echo cancelled separately; depicted in figures 1, 9, 10 and 11; recited in claims 11-21
- B. A multi-channel echo canceller system/method where the input audio signals are filtered in combination and the microphone signals are echo cancelled separately; depicted in figures 12-15; recited in claims 22-27

- C. A multi-channel echo canceller system/method where the input audio signals are filtered separately and the microphone signals are echo cancelled in combination; depicted in figures 16-20; recited in claims 28-31
- D. A multi-channel echo canceller system/method where the input audio signals are filtered in combination and the microphone signals are echo cancelled in combination; depicted in figures 20-23; recited in claims 32-35

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species and subspecies for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-10, 36-40 and 52 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species-subspecies (1A, 1B, 1C, 1D, 2A, 2B, 2C or 2D) that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

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are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter F. Briney III whose telephone number is 571-272-7513. The examiner can normally be reached on M-F 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WFB 5/10/05

SINH TRAN
SUPERVISORY PATENT EXAMINER

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